

CLAIMS

1. Catalyst that comes in the form of grains, each grain being formed by a core covered by at least one external layer, the core consisting of an acidic porous solid and having a size of between 0.1 micron and 0.4 millimeter, characterized in that the external layer has a uniform thickness with a uniformity criterion, C , which is less than 0.30, whereby said uniformity criterion C is defined as being equal to an average, on a number N of catalyst grain samples, of the ratio of the difference between the maximum thickness, $E_{i_{\max}}$, of the external layer and the minimum thickness, $E_{i_{\min}}$, of this same layer to the average of these two thicknesses $E_{i_{\max}}$ and $E_{i_{\min}}$.
2. Catalyst according to claim 1, wherein at least 95% of the surface of the core of the grains is covered by at least one external layer.
3. Catalyst according to claim 1 or 2, wherein the chemical composition of the core is different from that of the external layer.
4. Catalyst according to one of claims 1 to 3, wherein the size of the core of the grains is between 0.2 and 100 microns.
5. Catalyst according to one of claims 1 to 4, wherein the external layer of each grain is a crystallized microporous solid.
6. Catalyst according to claim 5, wherein the crystallized microporous solid of the external layer has pores that have a diameter of between 0.1 and 2 nm.
7. Catalyst according to one of claims 1 to 6, wherein the core and the external layer are zeolites.